



FIGURE 1

10061961.020102

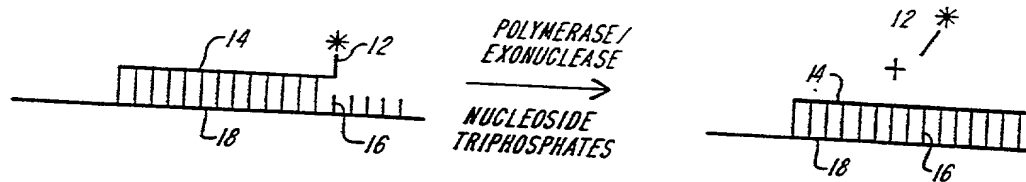


FIGURE 2

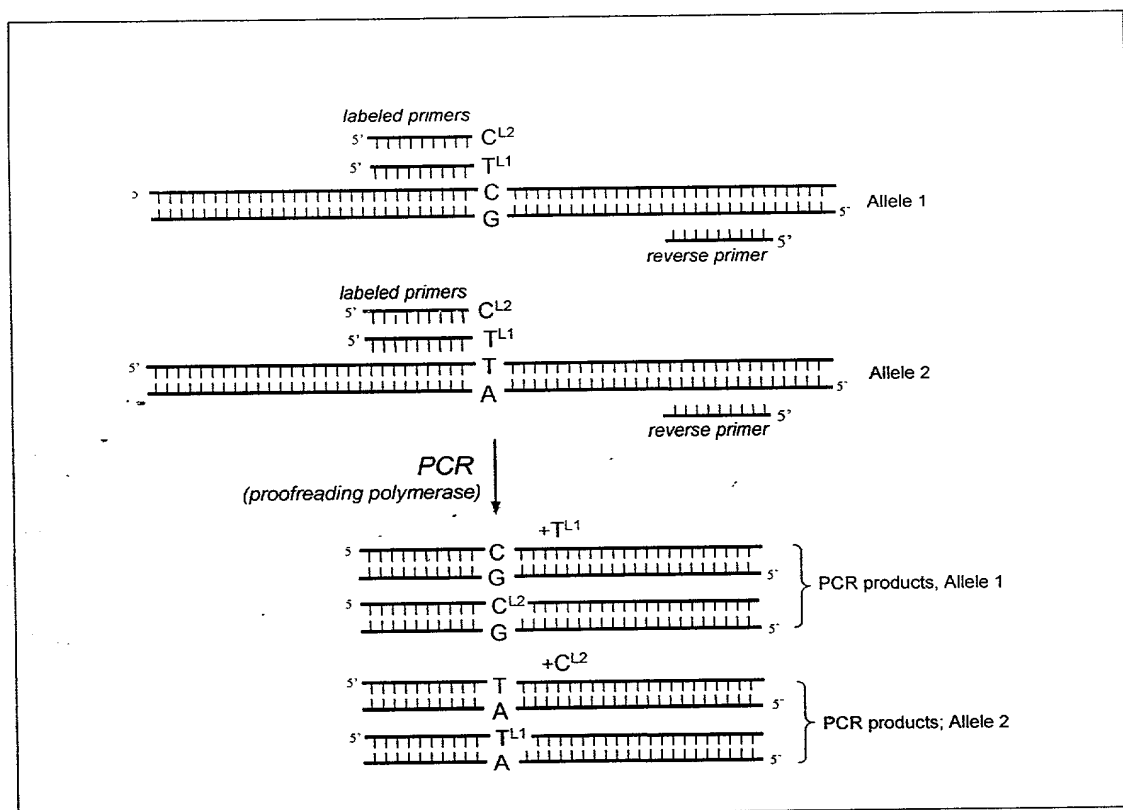


FIGURE 3

2010-01-20 10:00:00

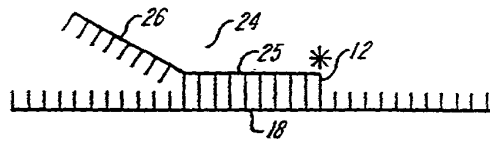


FIGURE 4

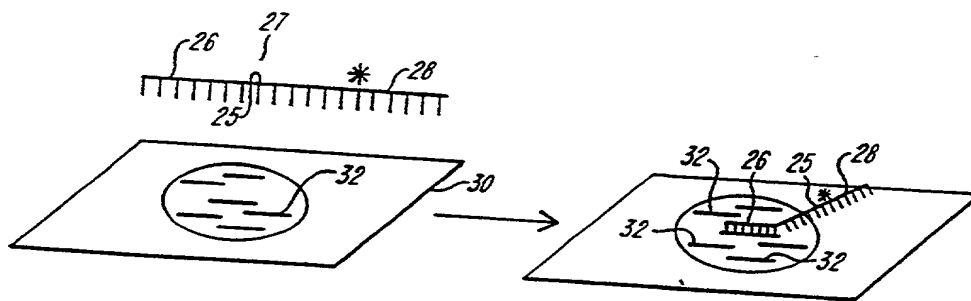


FIGURE 5

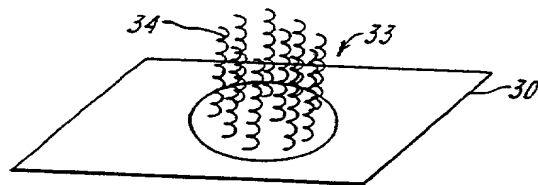


FIGURE 6

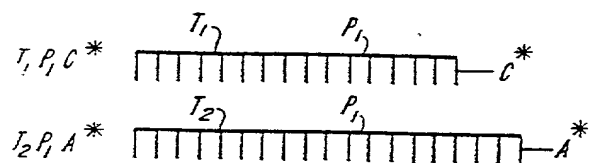


FIGURE 7

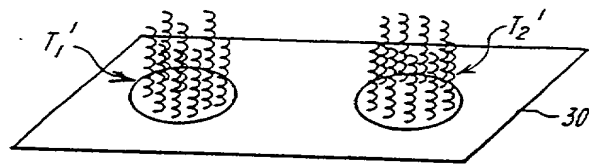


FIGURE 8

20061961-020102

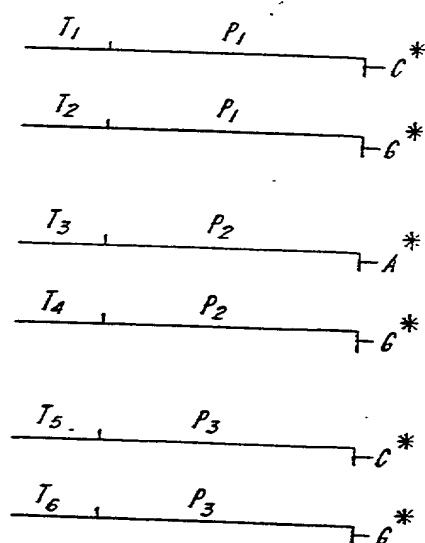


FIGURE 9

Single Nucleotide Replacement Assay

G

T

C

PCR rxn using
Proofreading Pol
& labeled ddNTP

G

C

FIGURE 10

Embodiment 1 FET-quencher™ T96T9003

Fluorescent dye

tagged primer

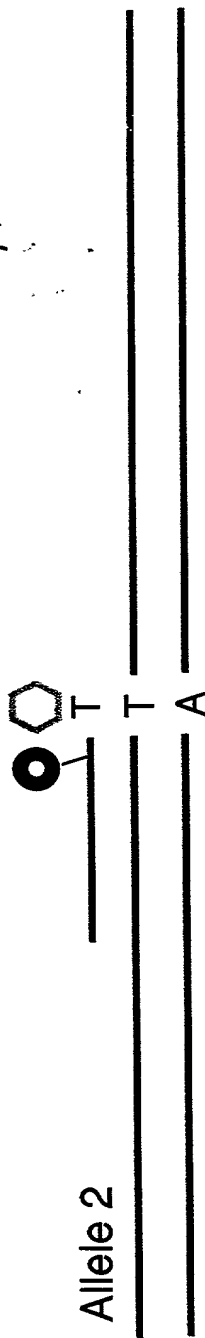
Allele 1



MUTANT

reverse primer

Allele 2



W.T.

PCR (Pfu, Pwo, or other proofreading polymerase)

Fluorescent dye emission when dye-tagged nucleotide released

Product 1



MUTANT

Product 2



W.T.

FIGURE 11

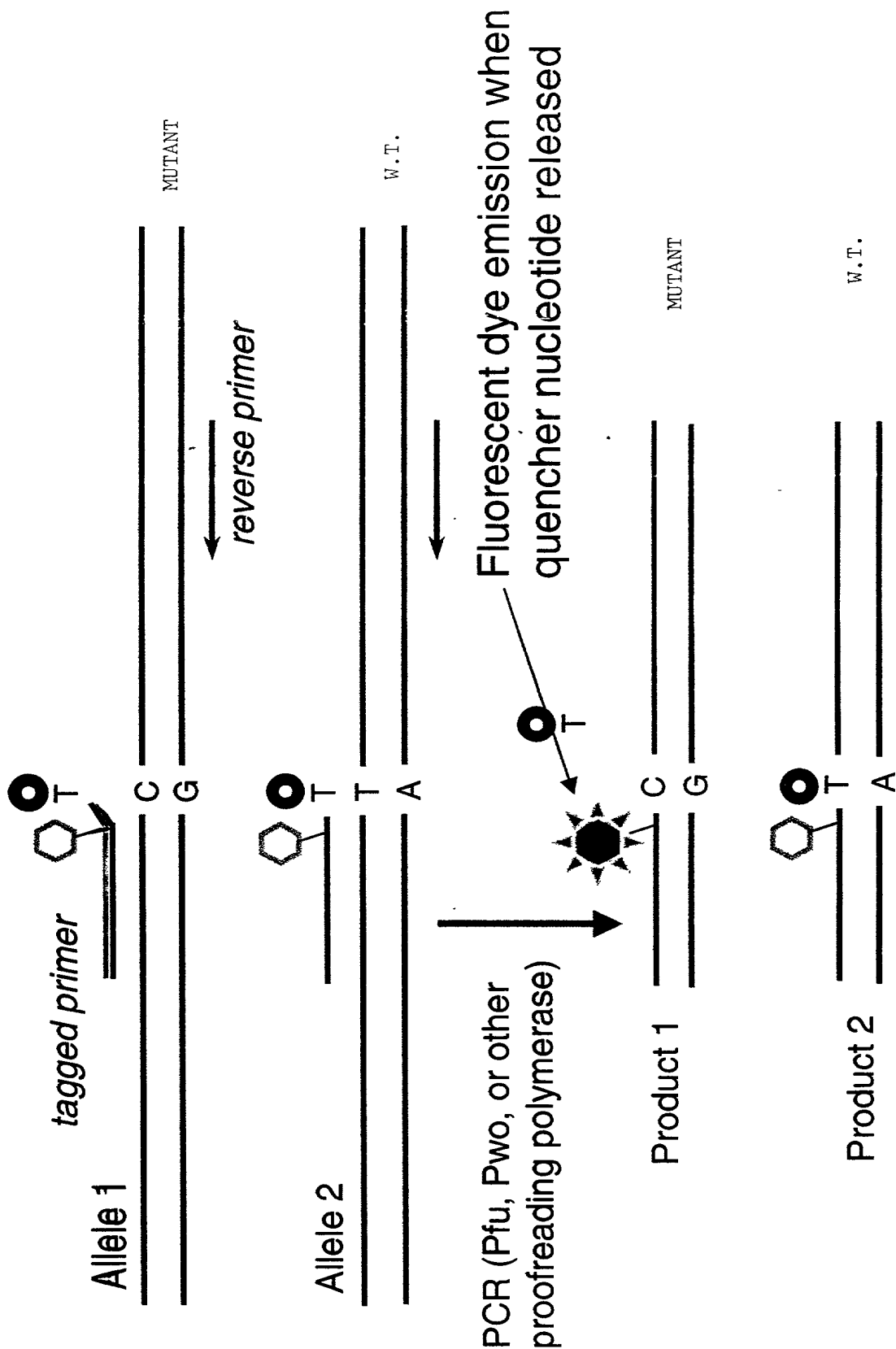


FIGURE 12

20100201 15:56:50

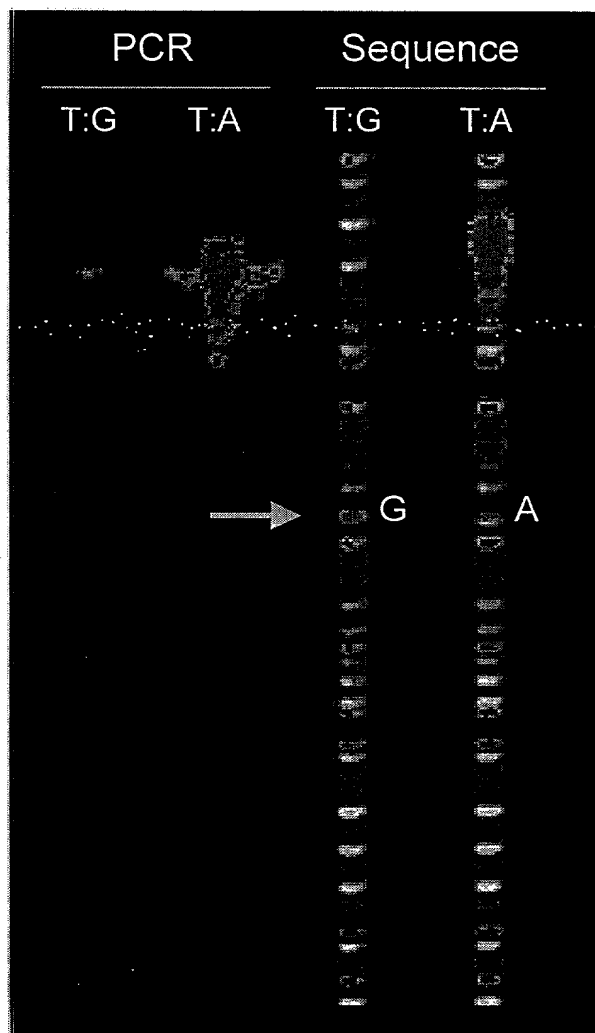


FIGURE 13

20100201 14:04:50

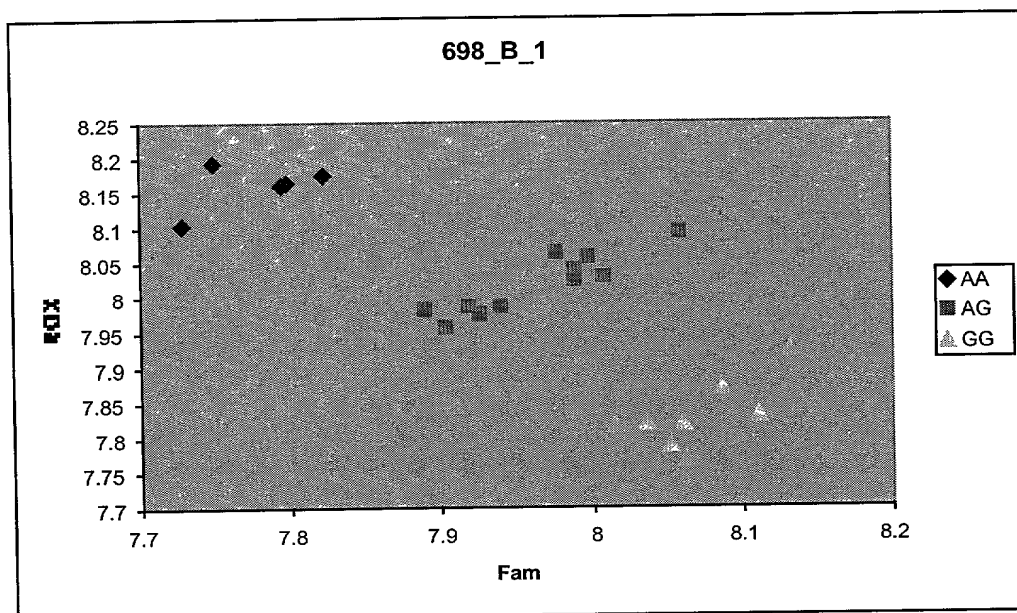


FIGURE 14

201020 T36T5001

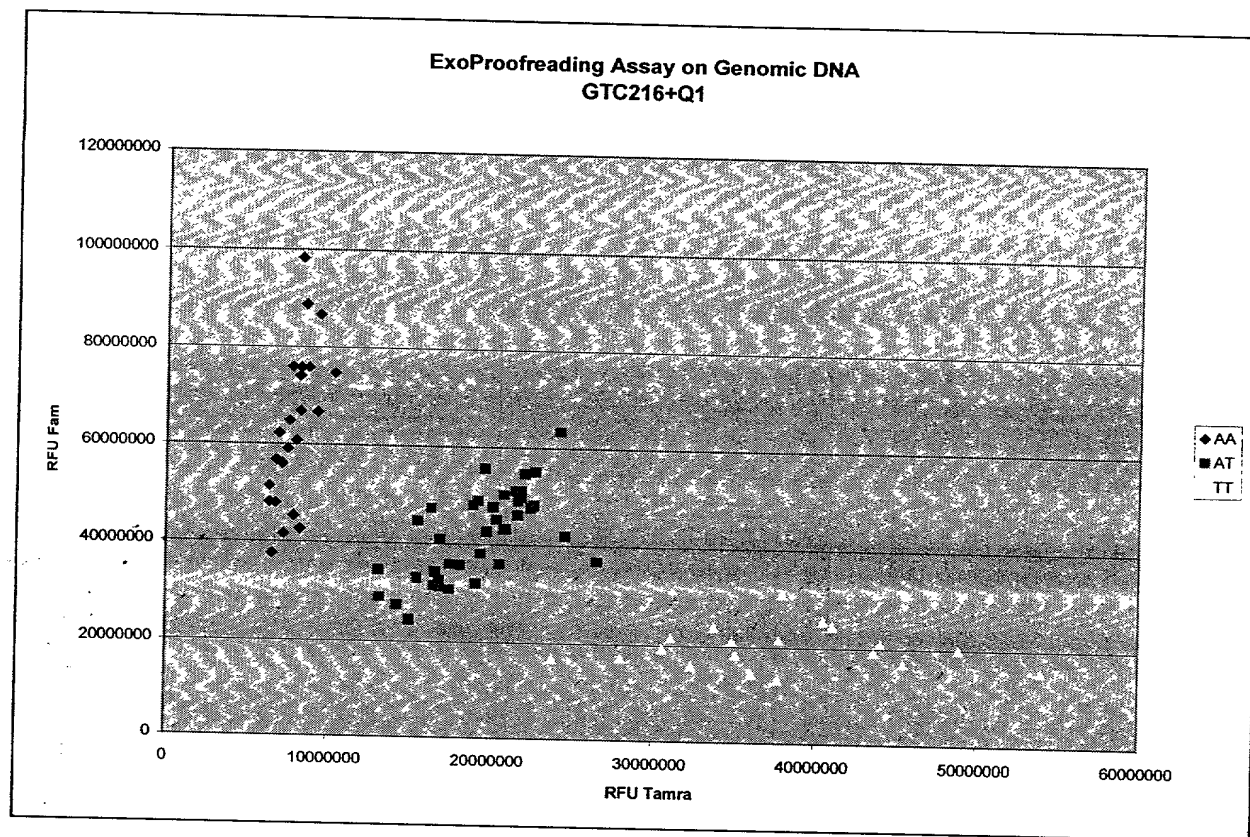


FIGURE 15











Starting Sample	Dialysate 15 min	Dialysate 20 min	Sample 45 min	Sample 60 min	
					NAT2-T ³⁴¹ (labeled PCR product)
					NAT2-C ³⁴¹ (labeled excised nucleotide)

FIGURE 16

Exo-Proofreading Assay Using Fluorescence Polarization Detection Method
GTC216_Q_+1

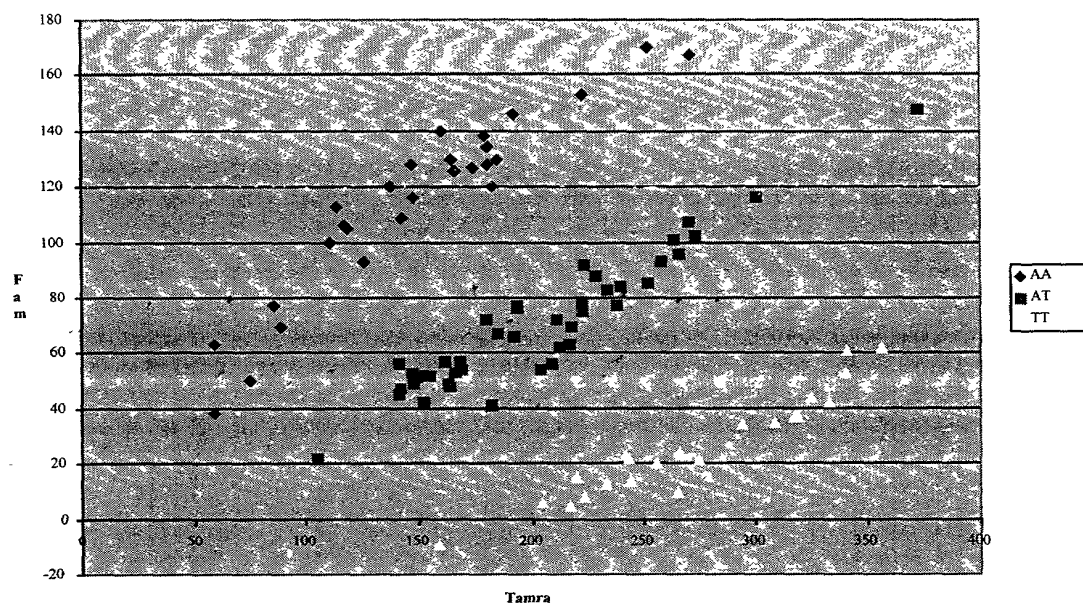


FIGURE 17

20051961.000000

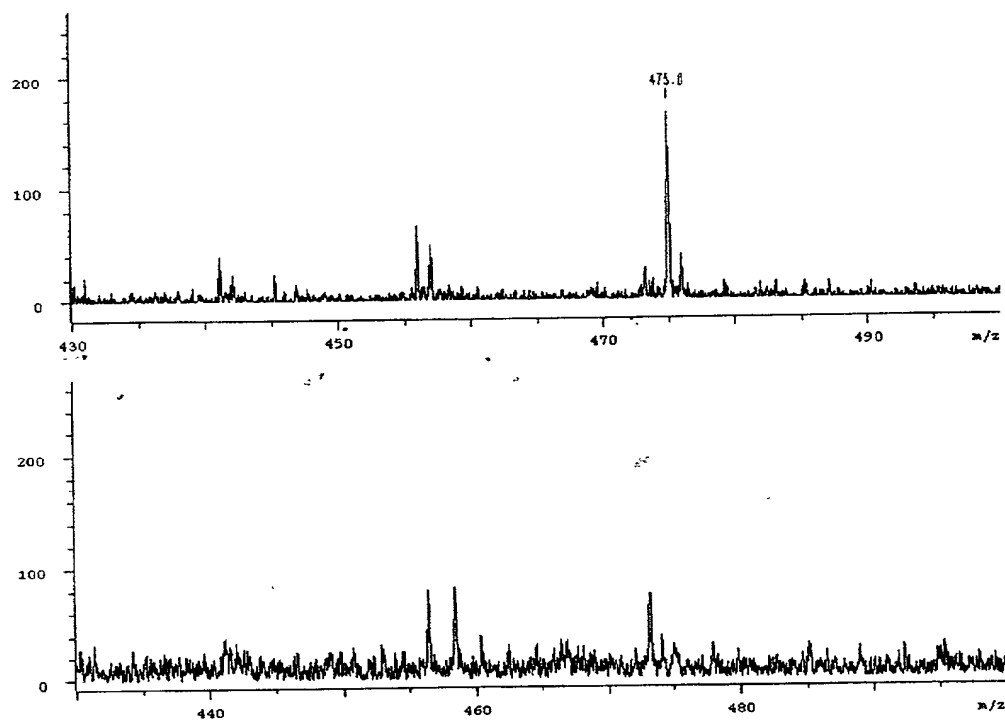


FIGURE 18

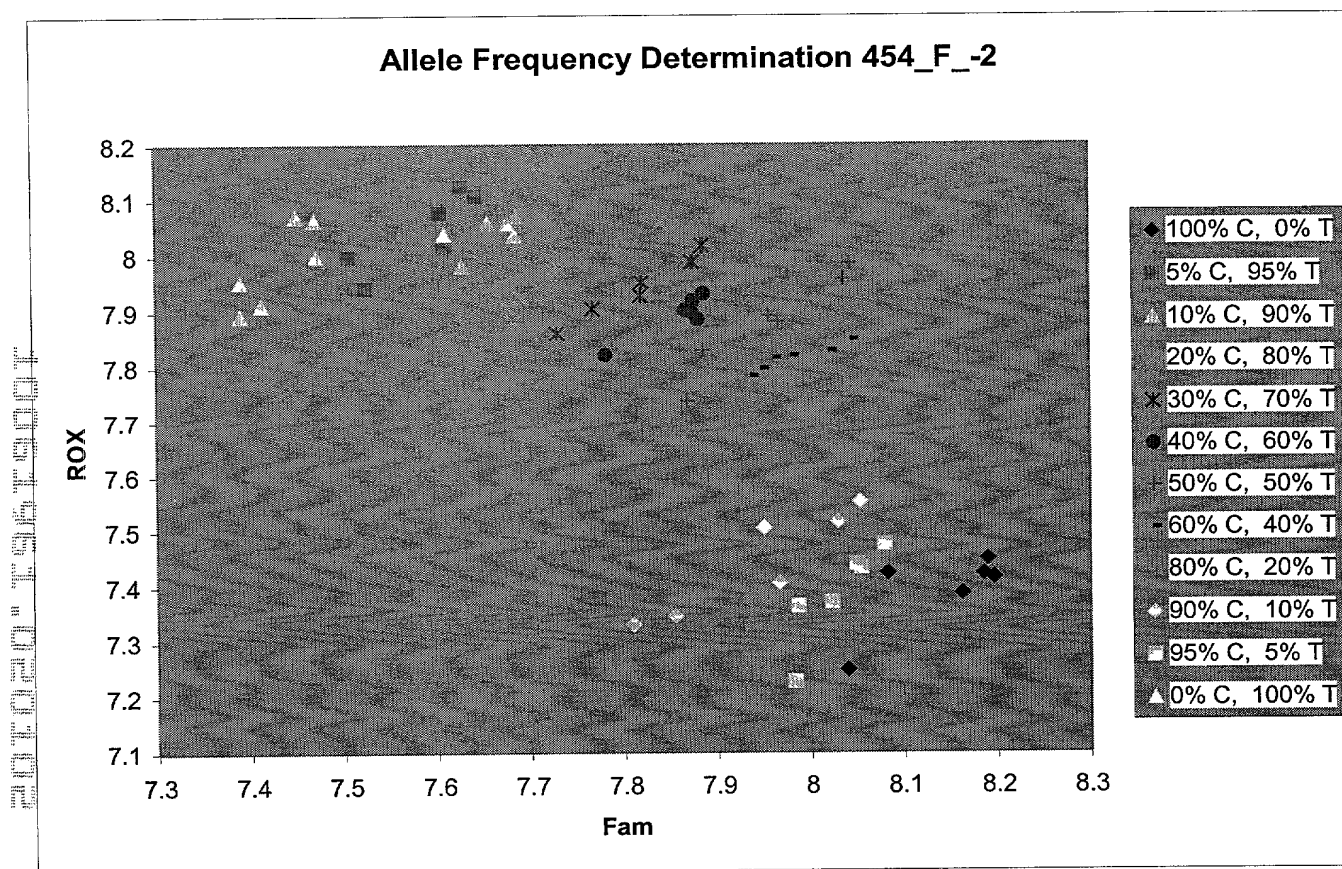


FIGURE 19